Module Ancient Greek Lyre, technique, performance	
Tutors	Evangelia Kopsalidou, Specialized teaching Staff,
School of Education Sciences	

Title of Module	Ancient Greek Lyre, technique, performance		
Autonomous Teaching Activities in case credits are awarded separately for distinct parts e.g. Lectures, Lab Exercises, etc. Specify the total teaching hours and credits.		Total Teaching Hours	Credits Units
		27,5	
		68,5	2,29
Language of Tutoring and Examination:	English-Greek		

EDUCATIONAL OBJECTIVES

Educational Objectives

The Educational objectives of the thematic unit/course describe the specific knowledge, skills, and abilities of an appropriate level that learners will acquire upon successful completion of the course.

After completing the programme the learners are expected to:

- -get to know the ancient Greek lyre: origin, construction, way of playing
- -get to know and describe the place of music in ancient Greece
- -understand the ancient Greek musical system and the place of the lyre in it
- -get to know the ancient Greek musical fragments and their direct connection to the speech

General Skills

Note the general skills that the trainee acquires. Which of these does the course aim at?

 ${\it Research, analysis, and synthesis of data and}$

information, using the necessary technologies

Adaptation to new situations

Decision making

Independent work

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas

Project planning and management

Respect for diversity and multiculturalism

Respect for the natural environment

Demonstrating social, professional, and ethical

responsibility and sensitivity to gender issues

Exercise of critical and self-critical thinking

Promotion of free, creative, and inductive thinking

- -to play the ancient Greek lyre
- -to recognize ancient and modern Greek rhythms
- -to choose the appropriate accompaniment for the narration of texts with the lyre
- -to evaluate the position of the ancient Greek lyre in the antiquity
- -to appreciate the role of the lyre as a symbol of music throughout the centuries
- -to from a mindset of acceptance and recognition of the lyre as the main educational musical instrument in antiquity
- -to from a mindset of accepting and using the lyre as the main education musical instrument today in Greece

MODULE CONTENT

Introduction to the ancient Greek lyre: origin, construction, way of playing

 Learning the ancient Greek lyre through the complete method of Nikos Xanthoulis: exercises, compositions, lyrodies

TEACHING and LEARNING METHODS - ASSESSMENT

Training Method Physical presence/on-line /blended.	Blended
Use Of Information And Communication Technologies (Ict) Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees	Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees
Evaluation Of Trainees	Oral examination-concert
Description of the evaluation process	Oral examination-concert
Evaluation Language, Evaluation Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Questions,	
Problem Solving, Written Assignment, Report, Oral Examination, Public Presentation,	
Laboratory Work, Clinical Patient Examination, Artistic Interpretation, Other	
Explicitly specified evaluation criteria are mentioned and if and where they are accessible to the trainees.	

- 1. BARKER, Andrew, *Greek Musical Writings: Volume 1 and Volume 2*, Cambridge, Cambridge University Press 1990.
- 2. Barker, Andrew (2007). The Science of Harmonics in Classical Greece. Cambridge and New York: Cambridge University Press. ISBN 9780521879514.
- 3. Landels, John, Music in Ancient Greece and Rome (London: Routledge, 1999).
- 4. Lynch, Tosca & Eleonora Rocconi, A companion to ancient Greek and Roman music. Blackwell companions to the ancient world . Hoboken: Wiley, 2020.
- 5. Mathiesen, Thomas, Ancient Greek Music Theory: A Catalogue Raisonee of Manuscripts, Repertoire International des Sources Musicales [RISM] B11 (Muenchen: Henle, 1988).
- 6. *Apollo's Lyre: Greek Music and Music Theory in Antiquity and the Middle Ages,* Nebraska, Nebraska Press, 1999.
- 7. ΜΙΧΑΗΛΙΔΗΣ, Σόλων, *Εγκυκλοπαίδεια της Αρχαίας Ελληνικής Μουσικής,* Αθήνα, Μορφωτικό Ίδρυμα Εθνικής Τραπέζης, 1981.
- 8. Monro, D. B., *The Modes of Ancient Greek Music* (Oxford: Clarendon Press, 1894).
- 9. ΞΑΝΘΟΥΛΗΣ, Νίκος, Τέχνη Μουσικής, Αθήνα, Δαίδαλος-Ζαχαρόπουλος, 2005.
- 10. ΞΑΝΘΟΥΛΗΣ, Νίκος, *Ολοκληρωμένη μέθοδος της Αρχαίας Ελληνικής Λύρας,* Αθήνα, Orpheus, 2021.
- 11. West, Martin L., Ancient Greek Music (Oxford: Oxford University Press, 1992).

Module Ancient Greek Lyre, technique, performance II	
Tutors	Nikow Xanthoulis, composer, lyre soloist

Title of Module	Ancient Greek Lyre, technique, performance		
Autonomous Teaching Activities in case credits are awarded separately for distinct parts e.g. Lectures, Lab Exercises, etc. Specify the total teaching hours and credits.		Total Teaching Hours	Credits Units
		27,5	
		68,5	2,29
Language of Tutoring and Examination:	English-Greek		

EDUCATIONAL OBJECTIVES

Educational Objectives

The Educational objectives of the thematic unit/course describe the specific knowledge, skills, and abilities of an appropriate level that learners will acquire upon successful completion of the course.

After completing the programme the learners are expected to:

- -get to know in depth the ancient Greek lyre and further their teachniques
- -get to know and describe the place of music in ancient Greece
- -understand the ancient Greek musical system and the place of the lyre in it
- -get to know the ancient Greek musical fragments and their direct connection to the speech

General Skills

Note the general skills that the trainee acquires. Which of these does the course aim at?

Research, analysis, and synthesis of data and

information, using the necessary technologies

Adaptation to new situations

Decision making

Independent work

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas

Project planning and management

Respect for diversity and multiculturalism

Respect for the natural environment

Demonstrating social, professional, and ethical

responsibility and sensitivity to gender issues

Exercise of critical and self-critical thinking

Promotion of free, creative, and inductive thinking

- -to play the ancient Greek lyre in a more complicated manner and discover artistic solutions in playing and accompanying the songs or the recitations
- -to recognize ancient and modern Greek rhythms
- -to choose the appropriate accompaniment for the narration of texts with the lyre
- -to evaluate the position of the ancient Greek lyre in the antiquity
- -to appreciate the role of the lyre as a symbol of music throughout the centuries
- -to from a mindset of acceptance and recognition of the lyre as the main educational musical instrument in antiquity
- -to from a mindset of accepting and using the lyre as the main education musical instrument today in Greece

MODULE CONTENT

To further their technical abilities on the lyre playing

 Learning the ancient Greek lyre through the complete method of Nikos Xanthoulis: exercises, compositions, lyrodies

TEACHING and LEARNING METHODS - ASSESSMENT

Training Method Physical presence/on-line /blended.	Blended
Use Of Information And Communication Technologies (Ict) Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees	Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees
Evaluation Of Trainees Description of the evaluation process Evaluation Language, Evaluation Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Questions, Problem Solving, Written Assignment, Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Patient Examination, Artistic Interpretation, Other	Oral examination-concert
Explicitly specified evaluation criteria are mentioned and if and where they are accessible to the trainees.	

- 1. BARKER, Andrew, *Greek Musical Writings: Volume 1 and Volume 2*, Cambridge, Cambridge University Press 1990.
- 2. Barker, Andrew (2007). The Science of Harmonics in Classical Greece. Cambridge and New York: Cambridge University Press. ISBN 9780521879514.
- 3. Landels, John, Music in Ancient Greece and Rome (London: Routledge, 1999).
- 4. Lynch, Tosca & Eleonora Rocconi, A companion to ancient Greek and Roman music. Blackwell companions to the ancient world . Hoboken: Wiley, 2020.
- 5. Mathiesen, Thomas, Ancient Greek Music Theory: A Catalogue Raisonee of Manuscripts, Repertoire International des Sources Musicales [RISM] B11 (Muenchen: Henle, 1988).
- 6. *Apollo's Lyre: Greek Music and Music Theory in Antiquity and the Middle Ages,* Nebraska, Nebraska Press, 1999.
- 7. ΜΙΧΑΗΛΙΔΗΣ, Σόλων, *Εγκυκλοπαίδεια της Αρχαίας Ελληνικής Μουσικής,* Αθήνα, Μορφωτικό Ίδρυμα Εθνικής Τραπέζης, 1981.
- 8. Monro, D. B., *The Modes of Ancient Greek Music* (Oxford: Clarendon Press, 1894).
- 9. ΞΑΝΘΟΥΛΗΣ, Νίκος, Τέχνη Μουσικής, Αθήνα, Δαίδαλος-Ζαχαρόπουλος, 2005.
- 10. ΞΑΝΘΟΥΛΗΣ, Νίκος, *Ολοκληρωμένη μέθοδος της Αρχαίας Ελληνικής Λύρας,* Αθήνα, Orpheus, 2021.
- 11. West, Martin L., Ancient Greek Music (Oxford: Oxford University Press, 1992).

Module The role of the ancient Greek lyre in modern music education systems	
Tutors	Evangelia Kopsalidou, Specialized teaching staff,
	School of Education Sciences

Title of Module	The role of the ancient Greek lyre in modern education systems		
Autonomous Teaching Activities in case credits are awarded separately for distinct parts e.g. Lectures, Lab Exercises, etc. Specify the total teaching hours and credits.		Total Teaching Hours	Credits Units
		27,5	
		68,75	2,29
Language of Tutoring and Examination:	English-Greek		

EDUCATIONAL OBJECTIVES

Educational Objectives

The Educational objectives of the thematic unit/course describe the specific knowledge, skills, and abilities of an appropriate level that learners will acquire upon successful completion of the course.

After completing the program, the learners are expected to:

- -understand the ancient Greek musical system and the place of the lyre in it
- -understand the use of the lyre in modern music education systems
- -form a mindset of acceptance and recognition of the lyre as the main educational musical instrument in antiquity
- -form a mindset of accepting and using the lyre as the main educational musical instrument today

General Skills

Note the general skills that the trainee acquires. Which of these does the course aim at?

Research, analysis, and synthesis of data and

information, using the necessary technologies

Adaptation to new situations

. Decision making

Independent work

. Teamwork

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas

Project planning and management

 ${\it Respect for \ diversity \ and \ multiculturalism}$

 ${\it Respect for the \ natural \ environment}$

Demonstrating social, professional, and ethical

responsibility and sensitivity to gender issues

Exercise of critical and self-critical thinking

Promotion of free, creative, and inductive thinking

- -are able to recognize the importance and the role of music in antiquity
- -understand the role of music in the education of the ancient greeks by studying philosophical texts and ancient theories about music

MODULE CONTENT

- The ancient Greek lyre as a means of musical education in antiquity
- Modern music education systems and their relationship with the antiquity
- The position of the ancient Greek lyre in modern music education systems
- The ancient Greek lyre as a means of learning music at all levels of education today

TEACHING and LEARNING METHODS - ASSESSMENT

Training Method	Blended
Physical presence/on-line /blended.	
Use Of Information And Communication Technologies (Ict) Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees	Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees
Evaluation Of Trainees Description of the evaluation process	Oral examination
Evaluation Language, Evaluation Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Questions, Problem Solving, Written Assignment, Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Patient Examination, Artistic Interpretation, Other	
Explicitly specified evaluation criteria are mentioned and if and where they are accessible to the trainees.	

- Anderson, Warren D. (1966). Ethos and Education in Greek Music: The Evidence of Poetry and Philosophy. Cambridge, Massachusetts: Harvard University Press.
- Anderson, Warren D. (1994). Music and Musicians in Ancient Greece. Ithaca and London: Cornell University Press. ISBN 0-8014-3083-6 (cloth); ISBN 0-8014-3030-5 (pbk).
- Bélis, Annie, Aristoxene de Tarante et Aristote: Le Traité d'harmonique, Études et commentaires 100 (Paris: Klincksieck, 1986).
- Bélis, Annie, Η καθημερινή ζωή των μουσικών στην αρχαιότητα [Les musicians dans l'antiquité], μτφρ. Σταύρος Βλοντάκης (Αθήνα: Παπαδήμας, 2004· ά έκδ.: Paris: Puf, 1999).
- Bundrick, Sheramy (2005). Music and Image in Classical Athens. Cambridge University Press.
- BURNARD, Pamela, MURPHY, Regina, Teaching music creatively, Abington, Routledge, 2017.
- Calame, Claude, Choruses of Young Women in Ancient Greece: The Morphology, Religious Role, and Social Functions [Les Choeurs de Jeunes Filles en Grèce Archaiqe], μτφρ. Derek Collins & James Orion (Lanham: Rowman & Littlefield, 2001· ά έκδ.: Roma: Edizioni dell'Ateneo e Bizzarri, 1977).
- Calter, P. (1998). "Pythagoras & Music of the Spheres Archived 25 January 2021 at the Wayback Machine". Course syllabus, Math 5: Geometry in Art and Architecture, unit 3. Dartmouth.edu (accessed 1 October 2014).
- ΓΟΥΛΑΚΗ-ΒΟΥΤΥΡΑ, Αλεξάνδρα (επ.επιμ.), Μουσική Παιδεία και Δημοκρατία στην Κλασική Αθήνα, Αθήνα, Ίδρυμα της Βουλής των Ελλήνων, 2012.
- ΚΟΨΑΛΙΔΟΥ, Ευαγγελία, *Αναπλάθοντας την όπερα*, Αθήνα, Fagotto, 2014.
- ΚΟΨΑΛΙΔΟΥ, Ευαγγελία, *Αποκαλύπτοντας τη μουσική Μπαρόκ στα παιδιά,* Αθήνα, Fagotto, 2021.

- Mathiesen, Thomas J. (1999). Apollo's Lyre: Greek Music and Music Theory in Antiquity and the Middle Ages. University of Nebraska Press.
- Murray, Penelope & Wilson, Peter (2004). Music and the Muses: The Culture of "Mousike" in the Classical Athenian City. Oxford University Press.
- Pierson, A. (2021). "Ancient Greek Music: The Ethos of Harmonia". Journal of Musicological Studies.

Module	Theory and Philosophy of the Ancient Greek Music
Tutors	Nikos Xanthoulis-Composer,Lyre soloist, Evangelia
	Kopsalidou-Specialized Teaching Staff, School of
	Education Sciences, Sophia Karakouta-Musician,
	Voice Soloist

Title of Module	Theory and Philosophy of the Ancient Greek Music		
Autonomous Teaching Activities in case credits are awarded separately for distinct parts e.g. Lectures, Lab Exercises, etc. Specify the total teaching hours and credits.		Total Teaching Hours	Credits Units
		29	
		72,5	2,41
Language of Tutoring and Examination:	English-Greek		

EDUCATIONAL OBJECTIVES

Educational Objectives

The Educational objectives of the thematic unit/course describe the specific knowledge, skills, and abilities of an appropriate level that learners will acquire upon successful completion of the course.

- -get to know and describe the place of music in ancient Greece
- -understand the ancient Greek musical system
- -connect the relationship between philosophy and music

General Skills

Note the general skills that the trainee acquires. Which of these does the course aim at?

Research, analysis, and synthesis of data and

information, using the necessary technologies

Adaptation to new situations

Decision making

Independent work

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas

Project planning and management

 ${\it Respect for diversity and multiculturalism}$

Respect for the natural environment

Demonstrating social, professional, and ethical

responsibility and sensitivity to gender issues

 ${\it Exercise of critical and self-critical\ thinking}$

Promotion of free, creative, and inductive thinking

-understand the role of music in the education of the ancient Greeks by studying philosophical texts and ancient music theories

-determine ways of spreading and transmitting poems and songs in antiquity

MODULE CONTENT

- Music in the works of ancient Greek authors
- Ancient Greek theorists
- Ancient Greek musicians
- Musical system of the ancient Greeks

TEACHING and LEARNING METHODS - ASSESSMENT

Training Method Physical presence/on-line /blended.	Blended
Use Of Information And Communication Technologies (Ict) Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees	Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees
Evaluation Of Trainees Description of the evaluation process	Oral examination
Evaluation Language, Evaluation Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Questions, Problem Solving, Written Assignment, Report, Oral Examination, Public Presentation,	
Laboratory Work, Clinical Patient Examination, Artistic Interpretation, Other Explicitly specified evaluation criteria are	
mentioned and if and where they are accessible to the trainees.	

- 1. Αγγελόπουλος Λ., Δραγούμης Μ., Λέκκας Δ., Μαλιάρας Ν., Μάμαλης Ν., Μωραϊτης Θ., Παπαοικονόμου-Κηπουρού Κ. & Ρωμανου Κ. (2003) «Ελληνική Μουσική Πράξη: Αρχαίοι και Μέσοι Χρόνοι», Τόμος Β΄ ΕΑΠ, Πάτρα.
- 2. Anderson, Warren D., Ethos and Education in Greek Music: The Evidence of Poetry and Philosophy (Cambridge, MA: Harvard University Press, c1966)
- 3. Bélis, Annie, *Aristoxene de Tarante et Aristote: Le Traité d'harmonique*, Études et commentaires 100 (Paris: Klincksieck, 1986).
- 4. Dale, A.M., *The Lyric Metres of Greek Drama* (Cambridge: Cambridge University Press, 1948).
- 5. Ptolemaios und Porphyrios ueber die Musik, Goeteborgs Hoegskolas Arsskrift XL (Goeteborg: Elanders Boktryckeri Aktiebolag, 1934).
- Georgiades, Thrasybulos, Musik und Rhythmus bei den Griechen: Zum Ursprung der abendlaendischen Musik, Rowohlts deutsche Enzyklopaedie(Hamburg: Rowohlt, 1958) και Greek music, verse and dance [αγγλ. μτφ. του Der griechische Rhythmus] (New York: Merlin Press, c1955).
- 7. Lippman, Edward A., *Musical Thought in Ancient Greece* (New York: Columbia University Press, 1964).
- 8. Mathiesen, Thomas, Ancient Greek Music Theory: A Catalogue Raisonee of Manuscripts, Repertoire International des Sources Musicales [RISM] B11 (Muenchen: Henle, 1988).
- 9. *Greek Views On Music* (New York: Norton, 1998) από το: ed. Leo Treitler, *Source Readings In Music History* (τ. 1ος).
- 10. Apollo's Lyre: Greek Music and Music Theory in Antiquity and the Middle Ages, Nebraska, Nebraska Press, 1999.
- 11. ΜΙΧΑΗΛΙΔΗΣ, Σόλων, Εγκυκλοπαίδεια της Αρχαίας Ελληνικής Μουσικής, Αθήνα, Μορφωτικό Ίδρυμα Εθνικής Τραπέζης, 1981.
- 12. Monro, D. B., The Modes of Ancient Greek Music (Oxford: Clarendon Press, 1894).
- 13. ΞΑΝΘΟΥΛΗΣ, Νίκος, Τέχνη Μουσικής, Αθήνα, Δαίδαλος-Ζαχαρόπουλος, 2005.
- 14. West, Martin L., Ancient Greek Music (Oxford: Oxford University Press, 1992).
- 15. West, Martin L., Εισαγωγή στην Αρχαία Ελληνική Μετρική (μετάφρ. Ξάνθου, Μ. Τυφλόπουλου, Τ. κι επιμέλεια Παράσογλου, Γ. Μ.), Ινστιτούτο Νεοελληνικών Σπουδών (Ίδρυμα Μ. Τριανταφυλλίδη), Θεσσαλονίκη 1994 (=Oxford 1987).
- 16. Winnington-Ingram, R. P., *Mode in Ancient Greek Music* (Amsterdam: Hakkert,1968· ανατ. της έκδ. Cambridge: Cambridge University Press, 1936).

Module Techniques of accompaniment with the lyre	
Tutors	Nikos Xanthoulis, composer, lyre soloist

Title of Module	Techniques of accompaniment with the lyre		
Autonomous Teaching Activities in case credits are awarded separately for distinct parts e.g. Lectures, Lab Exercises, etc. Specify the total teaching hours and credits.		Total Teaching Hours	Credits Units
		27,5	
		68,5	2,29
Language of Tutoring and Examination:	English-Greek		

EDUCATIONAL OBJECTIVES

Educational Objectives

The Educational objectives of the thematic unit/course describe the specific knowledge, skills, and abilities of an appropriate level that learners will acquire upon successful completion of the course.

After completing the programme the learners are expected to:

- Analyze texts in a musical manner
- Accompany, with the lyre, texts that are recited
- Creating proper musical atmospheres for the narration

General Skills

Note the general skills that the trainee acquires. Which of these does the course aim at?

Research, analysis, and synthesis of data and

information, using the necessary technologies

Adaptation to new situations

Decision making

Independent work

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas

Project planning and management

Respect for diversity and multiculturalism

Respect for the natural environment

Demonstrating social, professional, and ethical

responsibility and sensitivity to gender issues

Exercise of critical and self-critical thinking

Promotion of free, creative, and inductive thinking

- -to play the ancient Greek lyre in a more complicated manner and discover artistic solutions in playing and accompanying the songs or the recitations
- -to recognize and use ancient and modern Greek rhythms
- -to choose the appropriate accompaniment for the narration of texts with the lyre

MODULE CONTENT

- To further their technical abilities on the lyre playing specially for the accompaniment
- Learning the techniques of accompaniment with ancient Greek lyre through the complete method of Nikos Xanthoulis: exercises, compositions, lyrodies

TEACHING and LEARNING METHODS - ASSESSMENT

Training Method	Blended
Physical presence/on-line /blended.	

Use Of Information And Communication Technologies (Ict) Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees	Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees
Evaluation Of Trainees Description of the evaluation process	Oral examination-concert
Evaluation Language, Evaluation Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Questions, Problem Solving, Written Assignment, Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Patient Examination, Artistic Interpretation, Other	
Explicitly specified evaluation criteria are mentioned and if and where they are accessible to the trainees.	

- 1. BARKER, Andrew, *Greek Musical Writings : Volume 1 and Volume 2*, Cambridge, Cambridge University Press 1990.
- 2. Barker, Andrew (2007). The Science of Harmonics in Classical Greece. Cambridge and New York: Cambridge University Press. ISBN 9780521879514.
- 3. Landels, John, Music in Ancient Greece and Rome (London: Routledge, 1999).
- 4. Lynch, Tosca & Eleonora Rocconi, A companion to ancient Greek and Roman music. Blackwell companions to the ancient world . Hoboken: Wiley, 2020.
- 5. Mathiesen, Thomas, Ancient Greek Music Theory: A Catalogue Raisonee of Manuscripts, Repertoire International des Sources Musicales [RISM] B11 (Muenchen: Henle, 1988).
- 6. *Apollo's Lyre: Greek Music and Music Theory in Antiquity and the Middle Ages,* Nebraska, Nebraska Press, 1999.
- 7. ΜΙΧΑΗΛΙΔΗΣ, Σόλων, *Εγκυκλοπαίδεια της Αρχαίας Ελληνικής Μουσικής,* Αθήνα, Μορφωτικό Ίδρυμα Εθνικής Τραπέζης, 1981.
- 8. Monro, D. B., The Modes of Ancient Greek Music (Oxford: Clarendon Press, 1894).
- 9. ΞΑΝΘΟΥΛΗΣ, Νίκος, Τέχνη Μουσικής, Αθήνα, Δαίδαλος-Ζαχαρόπουλος, 2005.
- 10. ΞΑΝΘΟΥΛΗΣ, Νίκος, *Ολοκληρωμένη μέθοδος της Αρχαίας Ελληνικής Λύρας,* Αθήνα, Orpheus, 2021.
- 11. West, Martin L., Ancient Greek Music (Oxford: Oxford University Press, 1992).

Module	Ensembles	
Tutors	Nikos Xanthoulis-Composer,Lyre soloist, Evangelia	
	Kopsalidou-Specialized Teaching Staff, School of	
	Education Sciences, Sophia Karakouta-Musician,	
	Voice Soloist	

Title of Module	Ensembles		
Autonomous Teaching Activities in case credits are awarded separately for distinct parts e.g. Lectures, Lab Exercises, etc. Specify the total teaching hours and credits.		Total Teaching Hours	Credits Units
		29	
		72,5	2,41
Language of Tutoring and Examination:	English-Greek		

EDUCATIONAL OBJECTIVES

Educational Objectives

The Educational objectives of the thematic unit/course describe the specific knowledge, skills, and abilities of an appropriate level that learners will acquire upon successful completion of the course.

- -get to know and perform the musical fragments of ancient Greek music and their direct connection to the speech
- -perform the ancient Greek lyre as a part of a musical ensemble

General Skills

Note the general skills that the trainee acquires. Which of these does the course aim at?

Research, analysis, and synthesis of data and

information, using the necessary technologies

Adaptation to new situations

Decision making

Independent work

. Teamwork

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas

Project planning and management

Respect for diversity and multiculturalism

Respect for the natural environment

Demonstrating social, professional, and ethical

responsibility and sensitivity to gender issues

Exercise of critical and self-critical thinking

Promotion of free, creative, and inductive thinking

- -to choose the appropriate accompaniment on the lyre for the narration
- -to describe ancient Greek poetry through their lyre performance
- -to sing ancient Greek poetry as well as modern one with a lyre accompaniment
- -perform modern pieces of Greek composers with a lyre accompaniment

MODULE CONTENT

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TEACHING and LEARNING METHODS - ASSESSMENT

Training Method Physical presence/on-line /blended.	Blended
Use Of Information And Communication Technologies (Ict)	

Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees	Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees
	· · · · · · · · · · · · · · · · · · ·
Evaluation Of Trainees Description of the evaluation process	Oral examination-Concert
Evaluation Language, Evaluation Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Questions, Problem Solving, Written Assignment, Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Patient Examination, Artistic Interpretation, Other	
Explicitly specified evaluation criteria are mentioned and if and where they are accessible to the trainees.	

- 1. BARKER, Andrew, *Greek Musical Writings: Volume 1 and Volume 2*, Cambridge, Cambridge University Press 1990.
- 2. ΞΑΝΘΟΥΛΗΣ, Νίκος, *Ολοκληρωμένη μέθοδος της Αρχαίας Ελληνικής Λύρας,* Αθήνα, Orpheus, 2021.
- 3. Συνθέσεις-τραγούδια των Μ.Θεοδωράκη, Μ. Χατζιδάκη, Γ.Μαρκόπουλο, Ν.Ξανθούλη κ.α. διασκευασμένα για αρχαία ελληνική λύρα και φωνή από τον Νίκο Ξανθούλη

Module	Choir	
Tutors	Sophia Karakouta, voice teacher instructor, choir	
	conductor, mezzo soprano	

Title of Module	CHOIR		
Autonomous Teaching Activities in case credits are awarded separately for distinct parts e.g. Lectures, Lab Exercises, etc. Specify the total teaching hours and credits.		Total Teaching Hours	Credits Units
	Vocal exercises - singing	27,5	
		68,75	2,29
Language of Tutoring and Examination:	English/Greek		

• EDUCATIONAL OBJECTIVES

Educational Objectives

The Educational objectives of the thematic unit/course describe the specific knowledge, skills, and abilities of an appropriate level that learners will acquire upon successful completion of the course.

- -Gain the basic skills on breathing techniques to support vocal production
- -Learn the context of a musical piece and how it should be performed for a specific era
- -Learn to be able to sing a lyrody both individually and as a group/choir
- -Demonstrate performance attitude (presence, preparation and presentation)
- -Improve articulation and comprehension of the texts of the pieces

General Skills

Note the general skills that the trainee acquires. Which of these does the course aim at?

Research, analysis, and synthesis of data and

information, using the necessary technologies

Adaptation to new situations

Decision making

Independent work

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas

Project planning and management Respect for diversity and multiculturalism

Respect for the natural environment

Demonstrating social, professional, and ethical

responsibility and sensitivity to gender issues

Exercise of critical and self-critical thinking

Promotion of free, creative, and inductive thinking

MODULE CONTENT

- Breathing exercises and voice strengthening
- Aural exercises for intervals
- Learning correct posture and health tips for maintain a healthy larynx

- Basic knowledge of the singer's anatomy
- Exercises to develop voice range and flexibility
- Orthophonic and articulation exercises
- Body activation and relaxation exercises

TEACHING and LEARNING METHODS - ASSESSMENT

Training Method Physical presence/on-line /blended.	Blended
Use Of Information And Communication Technologies (Ict) Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees	Use of live streaming, PowerPoint presentations, audio and video recordings, live through Teams platform.
Evaluation Of Trainees Description of the evaluation process Evaluation Language, Evaluation Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Questions, Problem Solving, Written Assignment, Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Patient Examination, Artistic Interpretation, Other Explicitly specified evaluation criteria are	Oral Examination/Concert
mentioned and if and where they are accessible to the trainees.	

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- Cremintz, M. L. A perspective on music and adult education with a survey of non-vocational adult music students in an adult education college. Guildford: University of Surrey, 1992.
- McCarthy, Marie. Toward a global community: The International Society for Music Education, 1953-2003. Nedlands, W. A: International Society for Music Education, 2004.
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- Ξανθούλης, Νίκος, Ολοκληρωμένη μέθοδος της Αρχαίας Ελληνικής Λύρας. Αθήνα: Orpheus, 2021.

Module Voice-Singing: basic knowledge and ancient Greek fragments	
Tutors	Sophia Karakouta, Voice instructor, choral conductor,
	mezzo soprano

Title of Module	Voice - Singing		
Autonomous Teaching Activities in case credits are awarded separately for distinct parts e.g. Lectures, Lab Exercises, etc. Specify the total teaching hours and credits.		Total Teaching Hours	Credits Units
		27,5	
		68,75	2,29
Language of Tutoring and Examination:	English/Greek		

EDUCATIONAL OBJECTIVES

Educational Objectives

The Educational objectives of the thematic unit/course describe the specific knowledge, skills, and abilities of an appropriate level that learners will acquire upon successful completion of the course.

- -Improving the range and volume of the voice
- -Learning techniques for optimal performance of timbre and breathing
- -Learning a healthy lifestyle and usage of the vocal chords
- -Knowledge of basic anatomy of the larynx
- -Training in intervals, scales and modes

General Skills

Note the general skills that the trainee acquires. Which of these does the course aim at?

Research, analysis, and synthesis of data and

information, using the necessary technologies

Adaptation to new situations

Decision making

Independent work

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas

Project planning and management

Respect for diversity and multiculturalism

Respect for the natural environment

Demonstrating social, professional, and ethical

responsibility and sensitivity to gender issues

Exercise of critical and self-critical thinking

Promotion of free, creative, and inductive thinking

MODULE CONTENT

- Diaphragmatic breathing exercises and voice strengthening
- Acoustic and melodic exercises in intervals, scales and modes
- Learning correct posture and articulation
- Exercises to develop voice range and flexibility

- Orthophonic and articulation exercises
- Body activation and relaxation exercises

TEACHING and LEARNING METHODS - ASSESSMENT

Training Method	Blended
Physical presence/on-line /blended.	Lice of ICT in Teaching in Laboratory Education in
Use Of Information And Communication Technologies (Ict)	Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees
Use of ICT in Teaching, in Laboratory	Communication with framees
Education, in Communication with Trainees	
Evaluation Of Trainees	Oral Examination/Concert
Description of the evaluation process	
Evaluation Language, Evaluation Methods,	
Formative or Summative, Multiple Choice Test,	
Short Answer Questions, Essay Questions, Problem Solving, Written Assignment, Report,	
Oral Examination, Public Presentation,	
Laboratory Work, Clinical Patient Examination, Artistic Interpretation, Other	
delle copretation, other	
Explicitly specified evaluation criteria are mentioned and if and where they are accessible	
to the trainees.	

- 1. Bélis, Annie. *The Daily Life of the Musicians in the Antiquity*. Athens: Papadima Publishing, 2004.
- 2. Caldwell, Robert. *Excellence in singing: Multilevel learning and multilevel teaching*. Redmond, WA: Caldwell Publishing, 2001.
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- 6. Palozc, Reka. ""Phoniatric problems in folk singing teaching"." "Bulletin of the Transylvania University of Brasov, series viii Performing Arts" 12(61), no. 2 (January 22, 2020): 75–82. http://dx.doi.org/10.31926/but.pa.2019.12.61.19.
- 7. Reifinger, James L. "Teaching Pitch Notation–Reading Skills." *General Music Today* 33, no. 3 (December 7, 2019): 21–28. http://dx.doi.org/10.1177/1048371319891419.
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Public

Module	Lyric Poetry - The Significance and Role of Music through the Texts of Ancient Greek Literature - Reception
Tutors	Georgios Tsomis, Professor of Ancient Greek

Philology

GENERAL

Title of Module	Lyric Poetry - The Significance and Role of Music through the Texts of Ancient Greek Literature - Reception		
Autonomous Teachi in case credits are awarded separately for Exercises, etc. Specify the total tea	distinct parts e.g. Lectures, Lab	Total Teaching Hours	Credits Units
		15	
		37,5	1,25
Language of Tutoring and Examination:	English		

EDUCATIONAL OBJECTIVES

Educational Objectives

The Educational objectives of the thematic unit/course describe the specific knowledge, skills, and abilities of an appropriate level that learners will acquire upon successful completion of the course.

Research, analysis, and synthesis of data and information, using the necessary technologies

Working in an international environment

Generating new research ideas

Project planning and management

Exercise of critical and self-critical thinking

Promotion of free, creative, and inductive thinking

General Skills

Note the general skills that the trainee acquires. Which of these does the course aim at?

Research, analysis, and synthesis of data and

information, using the necessary technologies

Adaptation to new situations

Decision making

Independent work

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas

Project planning and management

 ${\it Respect for \ diversity \ and \ multiculturalism}$

Respect for the natural environment

Demonstrating social, professional, and ethical

responsibility and sensitivity to gender issues

Exercise of critical and self-critical thinking

Promotion of free, creative, and inductive thinking

MODULE CONTENT

• 1. Ancient Lyric Poetry – from the Archaic to the Roman Era: General Introduction, Lyric Poetry vs. Epic Poetry, the Genres of Lyric Poetry: Elegy-lambic-Melic Poetry, the Types of Melic Poetry: Monody, Choral Song, Performance of Monodic and Choral Odes, the Poets, Tradition, Restoration, and Reconstruction of Lyric Fragments, Lyric Poetry in the Classical Era, Lyric Poetry in the Hellenistic Era, the Epigram.

- 2. Philosophy and Music in Antiquity Introduction: The Significance of Music in Antiquity, Pythagoreans, Plato, Aristotle, and Plotinus
- 3. Ancient Greek Music in the Middle Ages, the Renaissance, and the Birth of Opera (Orpheus and His Lyre): Reception

• TEACHING and LEARNING METHODS - ASSESSMENT

TEACHING and ELANIMING METH	0.0000000000000000000000000000000000000
Training Method Physical presence/on-line /blended.	on-line
Use Of Information And Communication Technologies (Ict) Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees	Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees
Evaluation Of Trainees Description of the evaluation process	Oral examination
Evaluation Language, Evaluation Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Questions, Problem Solving, Written Assignment, Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Patient Examination, Artistic Interpretation, Other	
Explicitly specified evaluation criteria are mentioned and if and where they are accessible to the trainees.	

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Module	Music, poetry and art in ancient Rome	
Tutors	Charilaos Michalopoulos, Associate Professor of	
	Latin, DUTh	

Title of Module	Music, poetry and art in ancient Rome		
Autonomous Teaching Activities in case credits are awarded separately for distinct parts e.g. Lectures, Lab Exercises, etc. Specify the total teaching hours and credits.		Total Teaching Hours	Credits Units
		4	
		10	0,33
Language of Tutoring and Examination:	English -Greek		

EDUCATIONAL OBJECTIVES

Educational Objectives

The Educational objectives of the thematic unit/course describe the specific knowledge, skills, and abilities of an appropriate level that learners will acquire upon successful completion of the course.

This thematic unit provides an introductory exploration into the origins and significance of music in Roman society. Through a structured overview, students will examine Roman musical instruments, diverse musical practices, and the cultural influences from Greece and Etruria. The course will also delve into the role of music in ceremonies, theatre, festivals, and military rituals. Emphasis will be placed on the impact of music in daily life, religion, and politics, as well as its representation in literature, particularly poetry, and the visual arts of the period.

After successfully completing the course, students will be able to:

- Understand terminology and theoretical issues related to Roman music.
- Analyze the cultural and social roles of music, poetry, and visual arts in ancient Roman society, including their influence on religion, politics, and daily life.
- Evaluate the influence of Greek, Etruscan, and other neighboring cultures on Roman artistic practices, including the adaptation and transformation of these traditions.
- Understand the evolutionary development of music in ancient Rome and place it within the broader ideological, aesthetic, and political contexts of Roman society over time.
- Cultivate the ability to grasp the ideas and values of a Latin literary text and successfully compare them with the values of the contemporary era (cultural literacy).
- Integrate knowledge from different disciplines (archaeology, literature, history) to develop a
 holistic understanding of how music, poetry, and art contributed to the broader Roman
 worldview.
- Reflect on and understand the relationships between music, literature, and power.
- Understand the critical role of art in shaping gender identities.
- Identify and analyze issues related to the strategies of representing the "reality" (artistic, social, literary) of women and, more generally, to be able to deal with issues related to gender discourse.
- Possess the ability to learn and update their knowledge.
- Recognize the value of Roman culture as an integral part of classical culture and as a shared foundation of the modern European cultural edifice.

General Skills

Note the general skills that the trainee acquires. Which of these does the course aim at?

Research, analysis, and synthesis of data and

information, using the necessary technologies

Adaptation to new situations

Decision making

Independent work

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas

Project planning and management

Respect for diversity and multiculturalism

Respect for the natural environment

Demonstrating social, professional, and ethical

responsibility and sensitivity to gender issues

Exercise of critical and self-critical thinking

Promotion of free, creative, and inductive thinking

Research, analysis, and synthesis of data and information, using the necessary technologies

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas

Respect for diversity and multiculturalism

Exercise of critical and self-critical thinking

Promotion of free, creative, and inductive thinking

MODULE CONTENT

- 1. Sources of Evidence: Literary/Technical Texts, Epigraphy, Art
- 2. Terminology
- 3. Etruscan and Greek Influence on Roman Music
- 4. Musical Instruments: i) Wind/String Instruments, Organ, Percussion, ii) Augustus and Apollo Citharoedus
- 5. Music and Space
- 6. The Status of Musicians: Nero, Princeps Citharoedus
- 7. Famous Musicians in Roman Art and Literature: Orpheus, Thamyris, Marsyas
- 8. Women and Music: Sempronia, Cynthia, Calpurnia
- 9. Roman music ... re-enacted (?)

TEACHING and LEARNING METHODS - ASSESSMENT

Training Method	On-line
Physical presence/on-line /blended.	
Use Of Information And Communication Technologies (Ict) Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees	Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees
Evaluation Of Trainees Description of the evaluation process Evaluation Language, Evaluation Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Questions, Problem Solving, Written Assignment, Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Patient Examination, Artistic Interpretation, Other	Oral examination
Explicitly specified evaluation criteria are mentioned and if and where they are accessible to the trainees.	

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Module	The therapeutic use of rhythmic movement.
	Intertemporal approach to a global phenomenon.

Title of Module	The therapeutic use of rhythmic movement.		
	Intertemporal approach to a global phenomenon.		non.
Autonomous Teachi	ng Activities	Total Teaching	
in case credits are awarded separately for distinct parts e.g. Lectures, Lab		Hours	Credits Units
Exercises, etc. Specify the total teaching hours and credits.			
		10	0,33
		25	0,83
Language of Tutoring and	Greek & English		
Examination:			

EDUCATIONAL OBJECTIVES

Educational Objectives

The Educational objectives of the thematic unit/course describe the specific knowledge, skills, and abilities of an appropriate level that learners will acquire upon successful completion of the course.

Upon completion of the courses students will know:

- the timeless use of rhythm and movement as a therapeutic tool
- the theoretical principles and bases of dance therapy
- the ecstatic dance therapy "technique" as presented in older societies
- the relationship between exercise and mental health
- examples of the ecstatic dance therapy method

General Skills

Note the general skills that the trainee acquires. Which of these does the course aim at?

Research, analysis, and synthesis of data and

information, using the necessary technologies

Adaptation to new situations

Decision making

Independent work

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas

Project planning and management

 ${\it Respect for diversity and multiculturalism}$

Respect for the natural environment

Demonstrating social, professional, and ethical

responsibility and sensitivity to gender issues

Exercise of critical and self-critical thinking

Promotion of free, creative, and inductive thinking

Upon completion of the courses students will have acquired the following skills:

- Adaptation to new situations
- Autonomous work
- Teamwork

Respect for diversity and multiculturalism

- Exercise criticism and self-criticism
- Promoting free, creative and inductive thinking

MODULE CONTENT

- Dance as a timeless and universal therapeutic tool
- The ecstatic dance therapy "technique"
- Dance therapy in the context of traditional societies (monotheistic). Case study
- Dance therapy in the context of traditional societies (polytheistic). Case study
- 5. Introduction to the principles and theories of healing through the Arts

TEACHING and LEARNING METHODS - ASSESSMENT

Training Method	Distance learning
Physical presence/on-line /blended.	
Use Of Information And	
Communication Technologies (Ict)	Use of ICT in Teaching
Use of ICT in Teaching, in Laboratory	
Education, in Communication with Trainees	
Evaluation Of Trainees	Oral
Description of the evaluation process	0.3.
Evaluation Language, Evaluation Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Questions, Problem Solving, Written Assignment, Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Patient Examination, Artistic Interpretation, Other	
Explicitly specified evaluation criteria are mentioned and if and where they are accessible to the trainees.	

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Module	Theatre and Performance	
Tutors	Lantzouraki Myrsini, Specialized teaching staff	
	(Drama in Education), PSED, School of Education	
	Sciences, DUTH- Drama practitioner, Theatre	
	Director	

Title of Module	Theatre and Performand experientially, through	•	
Autonomous Teaching Activities in case credits are awarded separately for distinct parts e.g. Lectures, Lab Exercises, etc. Specify the total teaching hours and credits.		Total Teaching Hours	Credits Units
Experiential Workshop		10	0,33
		25	0,83
Language of Tutoring and Examination:	Greek and English		

• EDUCATIONAL OBJECTIVES

Educational Objectives

The Educational objectives of the thematic unit/course describe the specific knowledge, skills, and abilities of an appropriate level that learners will acquire upon successful completion of the course.

During the workshop participants will:

- Come into contact with texts of the three great tragic poets: Aeschylus,
 Sophocles and Euripides.
- Analyze the points of the texts that bear the timelessness of the authors' thought by using techniques of dramatic art
- Express themselves through narrative techniques on selected choral excerpts.
- Accompany the narration with movement, kinesthetically emphasizing its importance.
- Choose parts of the work where speech and "act" could be enriched with sounds and/or with the accompaniment of the ancient Greek lyre.

General Skills

Note the general skills that the trainee acquires. Which of these does the course aim at?

Research, analysis, and synthesis of data and

information, using the necessary technologies

Adaptation to new situations

Decision making

Independent work

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas
Project planning and management
Respect for diversity and multiculturalism
Respect for the natural environment
Demonstrating social, professional, and ethical
responsibility and sensitivity to gender issues
Exercise of critical and self-critical thinking
Promotion of free, creative, and inductive thinking

- Teamwork
- Working in an interdisciplinary environment
- Respect on diversity and multiculturalism
- Promotion of creative thinking

MODULE CONTENT

Participants will approach excerpts of selected chorals from the oeuvre of the three ancient tragic poets. They will be invited, by following methods of theatre art and techniques of educational drama, to explore the core values that render these texts of timeless importance.

They will create small acts, connecting the past with the present, aiming to transmit, while interacting with promptness and truth, through experiential modes, through movement and speech, the quality of the ideas of classical ancient poetics.

The accompaniment of the lyre will be a strong link in the process of movement and action as it will unite the classical timbres with the past and present.

• TEACHING and LEARNING METHODS - ASSESSMENT

Training Method	Physical Presence
Physical presence/on-line /blended. Use Of Information And	
Communication Technologies (Ict) Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees	Projector, Camera, Laptop
Evaluation Of Trainees Description of the evaluation process	Presentation of the results of the training
Evaluation Language, Evaluation Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Questions, Problem Solving, Written Assignment, Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Patient Examination,	
Artistic Interpretation, Other Explicitly specified evaluation criteria are mentioned and if and where they are accessible to the trainees.	

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	Mathematics and Music, an ancient connection - Theory and Practice
	Theory and Traceice

Tutors	Souzana Vougioukli - mathematician, musician,	
	singer	

Title of Module	Mathematics and Music, an ancient connection - Theory and Practice		
Autonomous Teaching Activities in case credits are awarded separately for distinct parts e.g. Lectures, Lab Exercises, etc. Specify the total teaching hours and credits.		Total Teaching Hours	Credits Units
7 Distance education, 3 physical presence		10	
		25	0,83
Language of Tutoring and Exami- nation:	English-Greek		

EDUCATIONAL OBJECTIVES

Educational Objectives

The Educational objectives of the thematic unit/course describe the specific knowledge, skills, and abilities of an appropriate level that learners will acquire upon successful completion of the course.

Promotion of free, creative, and inductive thinking

Recognition of the common elements that may exist in all arts and sciences, through deduction and other mathematical methods, logic etc

Research, analysis, and synthesis of data and information, using Mathematics Adaptation to new situations

Decision making

Independent work

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas

Project planning and management

Respect for diversity and multiculturalism

Respect for the natural environment

Demonstrating social, professional, and ethical responsibility and sensitivity to gender issues

Exercise of critical and self-critical thinking

General Skills

Note the general skills that the trainee acquires. Which of these does the course aim at?

Research, analysis, and synthesis of data and information,

using the necessary technologies

Adaptation to new situations

Decision making

Independent work

Teamwork

Working in an international environment

Working in an interdisciplinary environment

Generating new research ideas

Project planning and management

Respect for diversity and multiculturalism

Respect for the natural environment

Demonstrating social, professional, and ethical responsi-

bility and sensitivity to gender issues

Exercise of critical and self-critical thinking

Promotion of free, creative, and inductive thinking

MODULE CONTENT

Music and Mathematics are two of the world's oldest arts-sciences, intertwined with human nature. Their connection has deep roots and is studied from ancient times until today - from Pythagoras and Confucius to Iannis Xenakis.

The specific module content, in which we will study the connection of Music and Mathematics both on a theoretical and a practical level, will indicatively contain:

- Introduction of basic concepts of Mathematics (from Number Theory, Algebra, Analysis, Geometry) and their applications to Music.
- -Morphological analysis of musical pieces through Mathematics (pattern recognition, modulo, etc.).
- -Recognition of common, universal elements (mathematically invariant) in the music of various peoples and of various eras; That is, those elements that remain unchanged in space and time.
- Review of the work of Pythagoras and other important mathematicians-musicians.

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TEACHING and LEARNING METHODS - ASSESSMENT

Training Method *Physical presence/on-line /blended.*

Physical presence/on-line /blended.

Use Of Information And Communication Technologies (Ict) Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees	Use of ICT in Teaching, in Laboratory Education, in Communication with Trainees. Recordings.
Evaluation Of Trainees Description of the evaluation process Evaluation Language, Evaluation Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Questions, Prob- lem Solving, Written Assignment, Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Patient Examination, Artistic Inter- pretation, Other Explicitly specified evaluation criteria are men- tioned and if and where they are accessible to the trainees.	Oral examination

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